

OIPE

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/020,141

DATE: 01/03/2002

TIME: 13:38:45

Input Set : A:\Seqlist.txt

Output Set: N:\CRF3\01032002\J020141.raw

**Does Not Comply
Corrected Diskette Needed**

```

3 <110> APPLICANT: McCarthy, Jeanette
4     Ableson, Allen
6 <120> TITLE OF INVENTION: DIAGNOSIS AND TREATMENT OF VASCULAR DISEASE
8 <130> FILE REFERENCE: MMI-002
C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/020,141
C--> 10 <141> CURRENT FILING DATE: 2001-12-14
10 <160> NUMBER OF SEQ ID NOS: 21 move down
W--> 12 <150> PRIOR APPLICATION NUMBER: US 60/313,097
W--> 13 <151> PRIOR FILING DATE: 2001-08-16
W--> 15 <150> PRIOR APPLICATION NUMBER: US 60/327,485
W--> 16 <151> PRIOR FILING DATE: 2001-10-05
18 <170> SOFTWARE: FastSEQ for Windows Version 4.0
20 <210> SEQ ID NO: 1
21 <211> LENGTH: 174566
22 <212> TYPE: DNA
23 <213> ORGANISM: Homo sapiens
25 <220> FEATURE:
26 <221> NAME/KEY: misc_feature
27 <222> LOCATION: (1)..(174566)
28 <223> OTHER INFORMATION: n = a,c,t or g
30 <400> SEQUENCE: 1
31 gaattcatct ggtttaatca gaaaacttca aagtagaggt ggcaccttaa atcacttgaa 60
32 gaaaaagatg aaaaaacaca gagagagaga gagaaagtgt gtgtgtgtgt gtgtgtatga 120
33 aaaaaacaga ggttgtgtat gcgtgtatat tgtgtgtgaa tattgtttgt gtatattgtg 180
W--> 34 tttgtatatt ctaccctct ctcaataagt tttataatat acaaacacac ncaatatata 240
35 cacatacaca catatacaca cacaaactct agaacaaatt aaatagggtt tctctaattg 300
36 attaggatag gtaaagtagg aagctaggca gcagagggca ttaaagccat taccaggtat 360
37 aaactttaag tagtcaactgg aaatcattat ggctttctaa acaaacaagt gatgatcaaa 420
38 ctgatgtctg aacttgatga ttcttaaaat gattatttaa aagatgattc ttttaaagaa 480
39 gatgtgtaaa tagtacatac agcaagatac atgtccctat cttgtgaaag aaatttttaa 540
40 gtgaacaaaa ttcccattta aaaattaaaa gctctttttt aattttacag gtagaaacag 600
41 caagtcacct taagcaaatt tgagataaaa tggaaaatca tttgcagcca ctgtaggggt 660
42 agaataacag aaacattttt ctttcatcag ctacagcttct atacatccaa taccacatgg 720
43 aatgcagaaa tctggggaaa ggggtggacca tttatacaaa aagcccaggt aaaagaagag 780
44 aatgagtttc caactattat tcttgagatt caaagttagc ataatctgtc agagagggat 840
45 agggtaaaaa aaaaaaaaaa aaagatgaaa tgaggggcct ggtcactgta ttgagtcagc 900
46 aaggggaaag atggttctaa attcatgagg tggctgataa gaactctatt ctcacctaac 960
47 cctctaagac ttgggattgt aaagtggctg ctgagtgaat ataaagagct gtacctttga 1020
48 gaatcttggt tagtttgtca tggggctttc ttgcttgaac tcacacaatg cttccttgat 1080
49 gcaggtccat ataaagagct atacgcttgg gagtacagtg gctcacacct gccatctcag 1140
W--> 50 cnttttcaga ggccaagcgg ggaattgctt gataccagga gttcaagacc agcctgagca 1200
51 acacagggag accacatctc tacaaaagat tattttttaa aattagctgg gctgagtggc 1260
52 atgtgcctgt gatcccagct acttggaag ctgaggtgga aggattattt gagcccagga 1320
53 ggtctaggct gcagtgtgca atgattcagc cattgcactc cagcctagat gacagagcaa 1380
54 gaccagctct caaaaaaag attatgaatg gctagtaagc atgtgaaaat atgettgaac 1440
55 tcattactca ttaaggaaat gcaaaaactaa aaccacagtg aaataccatt tcacacctat 1500
56 tataacagtt ataataaaaa aaaaaatcaa gtgttgagaa gatgtgaaga aactagaatc 1560

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/020,141

DATE: 01/03/2002

TIME: 13:38:45

Input Set : A:\Seqlist.txt

Output Set: N:\CRF3\01032002\J020141.raw

```

57 ctcatacatt gttggtgaaa aatgaaaatg ttataaacac tttggaaaac agttttgaca 1620
58 gtttaagagt taaacataaa ttcaccatat agactaaaat tcttctctta ggaatctccc 1680
59 caagagaaat aaaagtgtat gtccagagga agacatgtat acaaagtgtta atttcagtat 1740
60 tattcataac agccccaac tggaataat caaatgtcca tgagccaatg gaccaccaac 1800
61 aaagtaaaga atatccatac aatataatat agatttattt agccttaaaa ggggatgaac 1860
62 taccgataca tactacataa attaacctta gaaaccagaa gtgtgatgtc accaaaatgg 1920
63 cagaacagaa gcaatctggc ttcattctcc cctactgaaa accaaaaaca aatatccagt 1980
64 gccaagatta acaccagtaa tateccagaa ctcacatctg aagctgaaat gactcctggg 2040
65 ggcacagaga agtgaaaatc tccaagcaga tgtaagaaa aaaggacttc tatatccaca 2100
66 acaccctcc cccaaactgc caggtaccat gaggaagaat cccctgaaa tcttcatttc 2160
67 tacagtggaa aaagtggagc catggcagtc agccagcttc cccaccatct tgggttcctt 2220
68 tacaggaaaa ccattcctga atcaacccaa aggaagtatt atgagtgcct ataggcaata 2280
69 aacccctga gggcagctag aaactaaaag agaggtggga ccagcaacc caggccaca 2340
70 aattctgctc tttatctcag ccaaaggaga caccaaatca gagtggctgt tcagcagtac 2400
71 cacactgtag gaaggcacat gccatggctc cactcagcat gaacctatag acagccttcc 2460
72 cacacagcta gagtatcgt tttgagacct cccatttga gacatgcagg actctgaaca 2520
73 gttgtgaagc caaggcaaat ctgggtttta aatacaatct agtaacaaa agatgcagtg 2580
74 atctaggggt aaggtgactc aacaggcaaa gtgcaaaaat cctctaagca tatataccct 2640
75 gggaagacca aaacaagcta gacagcaaa actggaataa ataattaatg gttcaatgac 2700
76 aagatataga catatgtcca caaggaagaa cagcaacta ggaacctga cctcctcaga 2760
77 tggacagagt aaagaactag taactgacct taataagaca gcaatgtgtg agctctcaga 2820
78 taaagaatcc aaaatagtgg ttttaaggaa atctcatcaa agactgtaga gacaaagaag 2880
79 gtcaccaagt aataataaag gggctgatcc agtaagagga tataacaatt ataatatgt 2940
80 atgtacacaa caacagagga cccaaatata taaagcaaac attaatagac ctaaaggag 3000
81 agagagactg caatgcaatc ctagtagagg acttcaacac accattctca gtaatggaca 3060
82 gatgatccag aaagaaaatc acaaaagaaa catcaaagt aaactacact ctagatcaaa 3120
83 tgaacctgac atttgcagaa catttcatcc aactgctgca aatacacatt attctcatca 3180
84 gcacatcgaa cattctccag gataggccac acgtcaggcc acaaaagaag tctcaacaaa 3240
85 ttttaaaaag tcaaaatcat atgaagtact tttctgatcc cgatataata aaactaaaaa 3300
86 tcaataacta aggaattttg gaaactatgc aaacactgag actgctggca agatggctga 3360
87 acaggaacag ctccggtctg cagctcccag caagaccaac acagaaggcc ggtgatttct 3420
88 gcatttccaa ctgacgtacc ctgctcatct cattgggact ggttgggcag tgggtgcagc 3480
89 ccattggagg cgagcagaag cagggttggg catcgctca cccacgaagt gcaaggagca 3540
90 ggcggcggcg gggagggggt gggagggctc cctccccag ccaagggaag ccttgagaga 3600
91 ctgtgctatc tgggccagat actatgcttt cccacgggt tttgcaatcc acagaccagg 3660
92 agattccttc gctgcttac accaccagg cctgggttt caagcataaa actgggcggc 3720
93 tgtttgggct gacaccaagc tagctgcagg agttttttt tgtacccag aggcacctgg 3780
94 aatcccagcg agacagagct gttcactccc ctggaaagg gctgaagcca gggagccaag 3840
95 tgggtctcgt cagcgggacc cactcccatg gagcccagca agctaagaac cactgggtta 3900
96 aaattctcgc taccagcaca gcagtctgaa gtcaaaactg gaggatcaag cttggtgtgg 3960
97 ggaagggcatt ctgccattac tgaggcttgt tttcccctga cagcgctaaa aaggcctgga 4020
98 agttcggact ggggtggagct caacacagtg tggcaaatg gctgcagcca gactgcctct 4080
99 ctagattcct cttcactggg aagggcatt ctgaaagaaa ggcaccagcc ccagtcaagg 4140
100 ggttatagat aaaactccca tctactgga ccagcgtatc tgggggaagg ggcggctgtg 4200
101 ggcacaactt cagcggactt taaacgttcc tgcctgctga ctctgaagag agcagcagat 4260
102 cctgacaagg agggctctcc cagcacagcg cttgagctct gctaagggaac agactgcctc 4320
103 ctcaactggg tccctgacct ccatacctcc tgatggggag agacctccca acagcgattg 4380
104 tcagacacct catgcaggag agctctggct ggcacagcc tgggtgccct ctgggacaaa 4440
105 gcttccagaa gaaggagcaa cagcaatctt tgctgttctg cagcctacac tagtaatacc 4500

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/020,141

DATE: 01/03/2002

TIME: 13:38:45

Input Set : A:\Seqlist.txt

Output Set: N:\CRF3\01032002\J020141.raw

```

106 caggcacata aggtctggaa tggacctcca gcaaactgca gcagacctgc agaagacggg 4560
107 catgactgtt agaagaaaaa gtaacaaaca gaaagcagta acatcatcaa cataaggaac 4620
108 ccccatcacag aacaccatc caaagatcaa aggtaggtaa atccataaag atgaggacaa 4680
109 accagcacaa aaacgctgaa aattccaaaa accagaatgc ctcttctcct ccaaagtatt 4740
110 gcaactcctc tctagcaagg gcacaaaact agacagagaa tgagtttgat gatttgacag 4800
111 acgtaggctt cagaagggtg gtaataacaa actcctctga gctaaaggag catgttctaa 4860
112 cccaatgcaa agaagctaag aaccctgaca aaagggttaca ggaactgcta atagaacaac 4920
113 caatttagag aagaacataa atgacctgat ggggctgaaa aacacggcac aagaacttca 4980
114 tgaagcatac acaagtatca atagctgaat caatcaagca gaagaaagga tatcagagat 5040
115 tgaagttcaa cttactgaaa taagacatga agacaggatt agagacaaaa gattgaaaag 5100
116 gaatgaacga agcctccaag aaatatggga ctatgtgaaa agaccaaac tacgattgat 5160
117 tagggtcctt gaaagtgaca ggggagaatg gaaccaaatt ggaaaacaca cttcaggata 5220
118 ttatctggga gaacttcccc aatctagcaa gacagggcaa cattcaaatt caggaaatac 5280
119 agagaatacc actaagatac tccttgagaa gagcaacctt aaggcacaaa atcatcagac 5340
120 tctccacggt tgaaatggag gaataaaagt tggctgagcg tgggtggctca cgctgtaat 5400
121 tccagcactt tgggagcccg aggcgggagg atcacaaggt caggagatcg agaccatcct 5460
122 ggctaacacg gtgaaacccc atctctacta aaaaaataca aaaaattggc caggcgtggt 5520
123 ggtgggcgcc tgtagtccca gctacgtggg aggctgaggc aggagaatgg cgtgaacca 5580
124 ggaggcggag cttgcagtga gcggagatgt gccactgcac tccagcctgg gcaacagagc 5640
125 gagactcctt ctcaataaaa aaaaaaaaaa ttaaggcgag ccagagagag aggtcagggt 5700
126 acctacaaag ggaagcccat cagactaaca gcagatctct ctgcagaaaa cctacaagcc 5760
127 aaaagagagt gggggccaat attcaacatt cttaaagaaa agaattttct aactggaatt 5820
128 tcatatccag ccaaactaag ttttataagt gaaggagaaa taaaatcctt acatacaagc 5880
129 aaacgctgag ggattttgtc aacaccaggc ctgccttgca agagctcctg aaggaagcac 5940
130 taaatattaa gaagggaaaa actttcttaa tataagaaaa actttcttaa taccagccac 6000
131 tgcaaaaaaa aaaaacagtc gtatataaag accaatcaca ctatgaagaa actgcatcaa 6060
132 ctaatgttca aaataaccag ctagcatcat gatgacagga tgaaattaac atagaacaat 6120
133 attaacctta aatgtgaagg ggctaaatgc cccaattaaa agacacagac tggcaaatta 6180
134 aatgtattca ggagacccat ctacatgca aagacacaca taggctcaaa ataaagggat 6240
135 ggggaactat tcaccaagca aatggaaagc aaaaaaaaaa aaacaaaaaa aaaaaactgg 6300
136 ggggtgcaat cctagtctgt gataaaacag cccttaaacc aacaaagatc aaaaaagaca 6360
137 aagaagggat taatgcaaca agaagagcta actatcctaa atatatatgc acccaatgca 6420
138 ggagtacccc gattcataaa acaagttctt tgagacgtac aaagatactt agactccac 6480
139 acaatgaaag tgagagaatt tcacacccca ctatcaatag tgcagagctc aaggaaacaa 6540
140 aaaattaata aggattttca ggacttgaac tcagctctag attaagcaga cctaatagac 6600
141 acctacagaa ctctccaccc ccaaccaaca atatacatc ttctcagcac ttcacgcac 6660
142 ttattctaaa attgaccacc cccaatcaac agaatatgca ctcttctcag cactacatcg 6720
143 cacttattct aaaaattgacc acataattgg aagcaaaata ctctcagca aatgcaaaaag 6780
144 aatggaaatc acaacagtct ctgagaccac agtgcaatca aattagaact caggattaag 6840
145 aaactcactc aaaaccaaac agctacatgg aaactgaaca acctgctcct gaatgactac 6900
146 tgggtaaata atgaaatgaa ggcagaaata aataagttac ttgaaaccaa tgagaacaaa 6960
147 gacacaatgt accagaatct ctgggatgca gctaaagcag tgttttagagg gaaatttata 7020
148 gcaactaaatg cccacaggag aaggcaggaa agatctaaaa tgcacacctt aacatcacia 7080
149 ttaaaagaac tagagaagca agagcaacaa aattcaaatg ctatcagaaa acaagaaata 7140
150 actaagatca gagaaaaaca gaaagagata gagacatgaa gactacttca aaaaatcaat 7200
151 gaatctggaa gctggttttt tgaaatgatt aacaaaatag actgctagca agactaataa 7260
152 agaagaaaag agaaaagaat caaatagaca caataaaaaa tgataaaggg gatatcagca 7320
153 ctgaccccat agaaatacaa actaccatca gagaatacta taagcacctc tacacaaata 7380
154 aactagaaaa tctagaagaa atggataaat tcctggacac atacaccctc ccaaggctaa 7440

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/020,141

DATE: 01/03/2002

TIME: 13:38:45

Input Set : A:\Seqlist.txt

Output Set: N:\CRF3\01032002\J020141.raw

```

155 accaggaaga agtcgaatcc ctgaatagac caataacagg ttctgaaatt gagacagtaa 7500
156 ttaataacct accaaccaaa aaaagcccag gaccagatgg attcagagtt aaattctacc 7560
157 agaggtaaca ggaggggctg gtagcattcc ttctgaaact attccaaaca acagaaaagg 7620
158 ggggactccg ctctaactca ttttatgagg ccagcatcac cctgatacca aaaccaggca 7680
159 gaaacacaac aaaaaaagaa aatttggggc caatatttct tatgaacatt gatgtgaaaa 7740
160 tctcaataaa atactggcaa attgaatcca gccacacatc aaaaagctta tcatcacata 7800
161 aacagaacca atgacaaaaa ccacatgatt atctcaatag atgcagaaaa agccttcaat 7860
162 aaaattaagc accccttcat gctaaaaact ctcaataaac taggtattga tggaaacacat 7920
163 atcaaaaata taagagctat ttatgacaaa cccatagcca atatcatact gaatggacaa 7980
164 aagctggaag gattcctttt gacaaccggc acaagacaag gatgccctct ctcaccactc 8040
165 ctattcaaca tagtattgga agttctcccc acagcaatca ggcaagagaa agaaataaag 8100
166 cgtattcaca taggaagaga ggaagtccaa ttgcctctgt ttgcagatga catgattgta 8160
167 tatctagaaa accccatcgt ctacgcccac aatctcctta agctgataaa caacttcagc 8220
168 aaggtctcag gatacaaaat caatgtgcaa aaatcacaag cattcctata catcgaaaac 8280
169 gggcaggcag agagccaaat catgagtga ctccatttta cagttgctac aaagagaata 8340
170 aaatacctag gaatacaact tacaagggat gtgaaggacc tcttcaagga gaactgcaaa 8400
171 ccaactgctca agaaaataag agaggacaca acaaatgta aaaaaattcc atgttcatgg 8460
172 ataggaatga tcaatatcat gaaaatggcc atcttgccca aagtaattta tagattcagt 8520
173 gctatcccca tcaagctacc attgactttc ttcacagaat taaaaaacta ctttaaattt 8580
174 catatggaac caaaaaagag cctgtatagc caagacaatc ctaagcaaaa agaagaaagc 8640
175 tagaggtatc acgctacctg acttaaaact atactaaaag gctacagtaa tcaaaacagc 8700
176 aaacagcatg gtactggtac cagaacagat atatagacc atggaacaga acagaggtct 8760
177 caaatagcac cacacagcta caaccatctg atctctggca aacctgacag aaacaagcaa 8820
178 tggggaaatg attccctatt taataaatgg tgttgggaaa actggctacc catatgcaga 8880
179 aaactgaaat tggaaaccct ccttacacct aatagaaaat ataactcaag atggattaaa 8940
180 tacttaaatg taagatctaa aaccataaaa accctagaag aaaacctagg caataccatt 9000
181 caggacatag gcatgggcaa agactttatg actaaaacac caaaagcaat ggcaacaaaa 9060
182 gccaaaattg acaaatggga tctaattaaa ctaaagaact tctgcacgca aaagaaacta 9120
183 tcatcagagt gaacaggaaa cctacagaat gggagaaaat ttttgcaacc tatccacctg 9180
184 acaaagggtc gatattcaga atctacaaag cacttaaaaca aatttacaag aaaaaaaaac 9240
185 ccatcaaaaa gtgggtgaag gatatgaaca gacgcttctc aaaagaagac atttaacttt 9300
186 gggaggctga tgtgggcaga tcacaaggtc aggagatcaa gaccatcctg gcaaacatgg 9360
187 tgaaaacctg tctctactaa aaatacaaaa aattagccag gcatggtggt acgtacctgt 9420
188 agtcccagct actcaagagg ctgaggcagg aaaatcactt gaaccagga ggcaaagggt 9480
189 gcagtgaacc aagaccgtgc cactgcactc cagcctaggt gacagagtga gactttgtct 9540
190 caaaaaaaaa aaaaaaaaaa agaagaagca atttatgcgg ccaacaaaga tgaaaagaaa 9600
191 gctcatcatc actggtcatt agagaaatgc aaatcaaaac cacaatgaga taccatctca 9660
192 tgccagttag aatggcgatc attaaaaagt caggaaacaa cagatgctga agaggatgtg 9720
193 gagaaatagg aacgctttta cactgttggt gggaaatgta attaatcaaa ccattgtgga 9780
194 agaagtgtgg cgattcctca aggattttag accagaaata ccatttgacc caacaatccc 9840
195 attactgggt atatacccaa aggattataa atcattctac tataaagaca catgcacatg 9900
196 tatgtttatt gcagtgtgtg tcacaatagc aaagacttgg aaccaacca aatgcccac 9960
197 aatgatagac tggataaaga aaatgtggca catatacacc atggactact atgcagccat 10020
198 aacaaagaat gagttcctgt cctttgcagg gacatggatg aagctggaaa ccatcatcct 10080
199 cagcaaaacta acgcaggaa agaaaacca acaccacatg ttctcactca taagtgggag 10140
200 ttgaacaatg agaacacatg gacacaggga ggggaacatc acacactggg gcctgtcagg 10200
201 gggtaggggg ctagttaggg gatagcatta ggagaaatac ctaatgtaga tgatgggttg 10260
202 aaggggtgcag caaaccacca tagcatgtgt atacctatgt aacaaacctg cacgttctgc 10320
203 acatgtatcc cagaacttaa agtataataa aatagtctat ttgcttaca actgaacata 10380

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/020,141

DATE: 01/03/2002

TIME: 13:38:45

Input Set : A:\Seqlist.txt

Output Set: N:\CRF3\01032002\J020141.raw

```

204 aaggaacact ttttaaaaga aatcgacttg ctaatatattgt cttcaataaa tccagacact 10440
205 tcaccactta catccatcag aaatgacaaa tgataatgta gctttttaaca taagtctctt 10500
206 catttaagta taaaaggcaa tcttgctttg gactaatctt tccttatctg gggaattttt 10560
207 tggaaagaga caaaaagctt atctttcgtt tttagcatat gtataaacag aacaaaataa 10620
208 aaacagcaag ccttaatatc tttcgtttct cattttaatc ttgctaaaaa atattttaatc 10680
209 atttgtataa aaatatgca agcaacaaaa gcgtattgtg gtaatagttc tacaactcaa 10740
210 taaattttaat aaaaatcagt ggatgagtga attttatata cataaattat accttgataa 10800
211 agctgttttt aaaagttcta aatcaaaggt gaaccaaacc agtatttcat tcaaacaagt 10860
212 ccatgggaaa aaaaaaaca aaccatatca cccatcaatt cctaataaat gttgctaatt 10920
213 acctatttga tctccgcatt atcattatta ccatacattt atggctcact tttcagtttg 10980
214 caaaattcac gtgacaactc tgtgaggtaa acaagttagc tattattact ctgatatagc 11040
215 aagtttttaa aaactggcaa ctgacttgcc taagagtcac aggactatta agtatccatc 11100
216 caaaagcaag cccagttctg ttgaacctaa ttcttctcaa cacactgctc ttccctctaa 11160
217 atcattttta aacaaatttc ctacctacca ttgcattcag gaaaacttcg ctcttggcg 11220
218 agagcattta caaagtcac taactccacc attccattct ctgtttttta aaagagttta 11280
219 gattatacat tctggtgtat ttttgcataa aggcaaattt acattttaac acaactattt 11340
220 ttaaaattta ctgacatctt catttcatca tcctatttct ccttcataat atgtctcata 11400
221 attctttcta gattaagtca gttcatttga acaattattg agagcatatt agtgccaaga 11460
222 accatgctag gcaccgagaa tacaaaaata agaaagacac agtccttget ttctcaatat 11520
223 ctattacatg caaaggactg agttagatac taatttctta acagatctag gaaaaagaa 11580
224 agatgtccat atagatagac catgagagag ttaaggagtc tatttcatac catcttgaaa 11640
225 acccactcaa tatactatcc attaagacac cttaacaata ctaaccagcc ctgataaaac 11700
226 caaggattcc catctctatc tccctagtat ccatgtggtc caatgtttta cctattttta 11760
227 gatataaacc ctacagagtga tcatgtcaat cctgataagc agcaaaaagg gctcaataat 11820
228 tttagtcca cccactcttt atataatttt taattgaatc ttctttcaga tttgccttag 11880
229 ctaaaaaatt gtgccagat tctgaggatt cacttctaatt gttattctcc aatcagtcct 11940
230 tccccaaaat gtcacctctt tcctctctc aattgaactt ctgttggtga aaatgcttag 12000
231 ttactgataa aaataacttc cctagtataa aaaccttcc tagaaactta aactctgcct 12060
232 ttaacttagg ctagtactg ggatagcca ctcaacatct aaatgttaac tgctaagcat 12120
233 acctggctct aaattcccc gtattttgta atctccaatt attaatcttt ggatccttg 12180
234 gctatttgtg cagatatatc catacccctt agatattgtg gtcttgccat ctgaacctcg 12240
235 ctacaactgg atcagtcctc ccagcactac cctactatta ataggcacag atagggatag 12300
236 tgatgaagag ctttactgaa atgatctgga aatacgaaag gctccaaacc aatccatttg 12360
237 gtcagaactt aaaggaattt ttttttacta ttttccattt ttatatctga attttcttta 12420
238 gaatgacca ttctgtccca ttctaatatt ctaattgaga ggaattcctc caatatttaa 12480
239 tactatccga taaaaatata taactttctc agaaacttca gtgttatcag tctctacca 12540
240 tttctactag tgtctgtcac aatcttctgg aattcttcat ctaataaatt aattcctgtt 12600
241 gaaggcaaaa tagactgaag ttcttctgct gcaatgtaat tttcttgaag tttactgata 12660
242 gcttcacaga agttttctaa atacacaaaa tgtagagaac tattaggcaa cagaatttat 12720
243 gtgtcaaaaag caataatact caaatcttt agaaattaga gaacaagttt tatctatttt 12780
244 atattacctt atagatttta taagactgct tttctctcca tatctgttta tattacatta 12840
245 tattttaatct ttctcttaca gctcaaacac agaaccgtcc taacattcta taaacattta 12900
246 taatctactt gtttggggga acagcctgtt ccagtggccc agccaatgct gcttgcttct 12960
247 gattaaaata aaattaatgg ggccaggtat ggtggctcct gcctataatc acggcacttc 13020
248 gggaagccaa ggcaggtggg tcattggagg tcaagagttt gagaccggcc tggccaacat 13080
249 ggtgaaaccc tgtctctact aaaaatacaa aaattagctg ggtgtgatgg tgcattgtgt 13140
250 tagtcccagc tactcaagag gctgaggcag aaggatcact tgaacccggg aggcagaggt 13200
251 cgcagtgcac tgagatcgca ccactgcatt ccagcctgag tgtgtgtgtg tgtgtttgta 13260
252 tgtgtatgtg tgtgtgtaaa attaatgagt ccaagaaata aaaataccga agtgttttgt 13320

```

VERIFICATION SUMMARY
PATENT APPLICATION: US/10/020,141

DATE: 01/03/2002
TIME: 13:38:46

Input Set : A:\Seqlist.txt
Output Set: N:\CRF3\01032002\J020141.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application No
L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:12 M:281 W: Numeric Fields not Ordered, <150> not ordered!.
L:13 M:281 W: Numeric Fields not Ordered, <151> not ordered!.
L:15 M:281 W: Numeric Fields not Ordered, <150> not ordered!.
L:16 M:281 W: Numeric Fields not Ordered, <151> not ordered!.
L:34 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:50 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:466 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:542 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:708 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:764 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:844 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:858 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:859 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:861 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:1133 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:1134 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:1217 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:1222 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:1342 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:1380 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:1387 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:1389 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:1404 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:1465 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:1491 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:1532 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:1705 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:1859 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:1871 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:2147 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:2263 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:2274 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:2382 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:2421 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:2423 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:2464 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:2564 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:2618 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:2620 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:2646 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:2676 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:2712 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:2762 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:2763 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:2773 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:2790 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1

VERIFICATION SUMMARY
PATENT APPLICATION: US/10/020,141

DATE: 01/03/2002
TIME: 13:38:46

Input Set : A:\Seqlist.txt
Output Set: N:\CRF3\01032002\J020141.raw

L:2879 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:2880 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1